INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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May 16, 2003

Mr. Ralph Farber
PPG Industries, Inc.
424 East Inglefield Road
Evansville, Indiana 47725

Re: 163-16850-00094
Second Notice-Only Change to
MSOP 163-13849-00094

Dear Mr. Farber:

PPG Industries, Inc. was issued a Minor Source Operating Permit (MSOP) on January 25, 2002 for a stationary transportation transparency manufacturing source, which includes silk screening, tempering, laminating and other processes. An application request was received by the Office of Air Quality on February 28, 2003 to add a cold end process to the existing #5 tempering line, water heater and force air ventilation system, and replace the existing degreaser with a larger parts washer. Pursuant to the provisions of 326 IAC 2-6.1-6(d)(13), (a modification that adds emission units of the same type that are already permitted and that will comply with the same applicable requirements and permit terms and conditions as the existing emission units, and has a potential-to-emit of less than the thresholds specified in 326 IAC 2-6.1-6(g)(4) for minor revisions), the permit is hereby revised through a notice only change as follows. The new permit language added is **bolded.**

A.2 Emissions units and Pollution Control Equipment Summary

This stationary source is approved to operate the following emissions units and pollution control devices:

(a) One (1) silk screening operation, exhausted through Stacks 45, 55 and 56 (laminating) and Stacks 69, 70, 74 and 75 (tempering) with materials and capacities not indicated as confidentiality was requested, except for the talc application machines, consisting of:

(1) One (1) laminating line, known as Line 1, installed in 1980, includes silk screening, exhausting through Stack 45, equipped with a talc application machine controlled by a particulate matter trap, exhausted through Stack 117, capacity: 0.0007 pounds of talc per unit, equipped with two (2) cutting and two (2) edge machines.

(2) One (1) tempering line (cold end only), known as Line 2, equipped with one (1) cutting and two (2) edging machines, installed in 1980.

(3) One (1) tempering line, known as Line 3-1 (cold end only), installed in 1983, equipped with one (1) cutting and two (2) edge machines.

(4) One (1) tempering line, known as Line 3-2 (cold end only), installed in 1980, equipped with one (1) cutting and two (2) edge machines.

(5) One (1) tempering line, known as Line 3 (hot end only), installed in 1983, includes silk screening.

(6) One (1) tempering line, known as Line 4 (cold end and hot end, but no silk screening), installed in 1980, equipped with one (1) cutting and two (2) edge machines.

(7) One (1) tempering line, known as Line 5 (hot end only), includes silk screening of both silk screen frit and conductive coatings, installed in 1987, exhausting through Stacks 69 and 70.

(8) One (1) cold-end process to the existing tempering line #5, equipped with two (2) dust collectors, exhausting through Stacks 501 and 502.

(**9**~~8~~) One (1) tempering line, known as Line 6, includes silk screening of both silk screen frit and conductive coatings, installed in 1987, equipped with two (2) cutting and two (2) edge machines, exhausting through Stacks 74 and 75.

(**10**~~9~~) One (1) laminating line, known as Line 8A, includes silk screening of both silk screen frit and conductive coatings, installed in 1989, exhausted through Stack 55, equipped with a talc application machine controlled by fabric filters, exhausting through Stack 49, capacity: 0.003 pounds of talc per unit, equipped with one (1) cutting and one (1) edge machine.

(**11**~~10~~) One (1) laminating line, known as Line 8B, includes silk screening of both silk screen frit and conductive coatings, installed in 1989, exhausted through Stack 56, equipped with a talc application machine controlled by fabric filters, exhausting through Stack 50, capacity: 0.003 pounds of talc per unit, equipped with one (1) cutting and one (1) edge machine.

(b) One (1) prime and assembly line, installed in July 2001, with materials and capacities not indicated as confidentiality was requested, consisting of a primer application, equipped with a felt tip applicator, exhausting through Stack 300 and primer curing station, exhausting through Stack 301, a clip assembly machine and two (2) rubber dam soldering stations.

(c) Two (2) electric ovens, installed in 1989, exhausting through Stacks 121 - 128.

(d) Three (3) natural gas-fired boilers, known as boiler #1 through #3, installed in 1980, exhausting through Stacks 14, 17 and 20, respectively, rated at 8.38 million British thermal units per hour or 250 horsepower, each.

(e) One (1) natural gas-fired boiler, known as boiler #4, installed in 1987, exhausting through Stack 23, rated at 8.38 million British thermal units per hour or 250 horsepower.

(f) One (1) natural gas-fired boiler, known as boiler #5, used to keep fire protection water from freezing, installed in 1980, exhausting through Stack 302, rated at 1.5 million British thermal units per hour.

(g) Four (4) natural gas-fired burners, known as flame breakout, consisting of two (2) burners on Line 1 installed in 2000, one (1) burner on Line 8A installed in 1989, and one (1) burner on Line 8B installed in 1989, rated at 0.018 million British thermal units per hour, each.

(h) One (1) natural gas-fired preheat oven on Line 8A, exhausting through Stack 120, installed in July 2000, rated at 3.0 million British thermal units per hour.

(i) One (1) natural gas-fired process water heater, known as WH-1, at lamination line #1, rated at 3.5 million British thermal units per hour.

(j) One (1) natural gas-fired forced air ventilation system for space heating, rated at 3.898 million British thermal units per hour, consisting of two (2) process space heaters, known as VS-N1 and VS-N2, rated at 1.949 million British thermal units per hour each.

(**k**~~i~~) One (1) diesel-fired emergency generator, known as EG1, installed in 1997, rated at 197 horsepower output.

(**l**~~j~~) Two (2) diesel-fired emergency pumps, known as EP-1 and EP-2, installed in 1980, rated at 215 horsepower output, each.

(**m**~~k~~) **Nine (9)** ~~Ten (10)~~ parts washers, known as Washers #1 through #**9**~~10~~, installed between 1985 and 2000, capacity: 30 gallons of nonhalogenated solvent, each.

(**n**~~l~~) One (1) parts washer, known as Washer #11, installed in 1981, capacity: 100 gallons of nonhalogenated solvent.

(o) One (1) Safety-Kleen parts washer, installed in 2003, capacity: 77 gallons of non-halogenated solvent.

(**p**~~m~~) One (1) magnetic sputtered vacuum deposition process (no emissions) with capacity not indicated as confidentiality was requested.

(**q**~~n~~) One (1) off-line soldering process with materials and capacities not indicated as confidentiality was requested, consisting of three (3) manual soldering stations, installed in 1997 and one (1) manual soldering station, installed in 1999, exhausted through Stack 77.

(**r**~~o~~) One (1) interleaving process, equipped with a baghouse on Line 6, exhausted through Stack 119 with materials and capacity not indicated as confidentiality was requested,

(**s**~~p~~) Two (2) storage tanks, known as Tanks 1 and 2, installed in 1989, capacity: 500 gallons of water treatment product(s), each.

(**t**~~q~~) Three (3) storage tanks, known as Tanks 4, 5 and 6, used to store fuel for emergency generator and pumps, installed in 1980, 1980 and 1997, capacity: 300 gallons of diesel fuel, each.

(**u**~~r~~) One (1) storage tank, known as Tank 3, installed in 1987, capacity: 2,000 gallons of water treatment product.

(**v**s) Two (2) storage tanks, known as Tanks 7 and 9, installed in 1999, capacity: 400 gallons of water treatment product(s), each.

(**w**~~t~~) Two (2) storage tanks, known as Tanks 8 and 10, installed in 1992, capacity: 400 gallons of water treatment product(s), each.

(**x**~~u~~) Sulfur dioxide roll surface preparation, using four (4) 40 pounds cylinders, with materials and capacities not indicated as confidentiality was requested.

(**y**~~v~~) One (1) maintenance booth, equipped with dry filters for overspray control, with spray cans and/or air atomization spray applicators, exhausted through Stack 7, installed 1986.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Silk Screening Operation

(a) One (1) silk screening operation, exhausted through Stacks 45, 55 and 56 (laminating) and Stacks 69, 70, 74 and 75 (tempering) with materials and capacities not indicated as confidentiality was requested, except for the talc application machines, consisting of:

(1) One (1) laminating line, known as Line 1, installed in 1980, includes silk screening, exhausting through Stack 45, equipped with a talc application machine controlled by a particulate matter trap, exhausted through Stack 117, capacity: 0.0007 pounds of talc per unit, equipped with two (2) cutting and two (2) edge machines.

(2) One (1) tempering line (cold end only), known as Line 2, equipped with one (1) cutting and two (2) edging machines, installed in 1980.

(3) One (1) tempering line, known as Line 3-1 (cold end only), installed in 1983, equipped with one (1) cutting and two (2) edge machines.

(4) One (1) tempering line, known as Line 3-2 (cold end only), installed in 1980, equipped with one (1) cutting and two (2) edge machines.

(5) One (1) tempering line, known as Line 3 (hot end only), installed in 1983, includes silk screening.

(6) One (1) tempering line, known as Line 4 (cold end and hot end, but no silk screening), installed in 1980, equipped with one (1) cutting and two (2) edge machines.

(7) One (1) tempering line, known as Line 5 (hot end only), includes silk screening of both silk screen frit and conductive coatings, installed in 1987, exhausting through Stacks 69 and 70.

(8) One (1) cold-end process to the existing tempering line #5, equipped with two (2) dust collectors, exhausting through Stacks 501 and 502.

(**9**~~8~~) One (1) tempering line, known as Line 6, includes silk screening of both silk screen frit and conductive coatings, installed in 1987, equipped with two (2) cutting and two (2) edge machines, exhausting through Stacks 74 and 75.

(**10**~~9~~) One (1) laminating line, known as Line 8A, includes silk screening of both silk screen frit and conductive coatings, installed in 1989, exhausted through Stack 55, equipped with a talc application machine controlled by fabric filters, exhausting through Stack 49, capacity: 0.003 pounds of talc per unit, equipped with one (1) cutting and one (1) edge machine.

(**11**~~10~~) One (1) laminating line, known as Line 8B, includes silk screening of both silk screen frit and conductive coatings, installed in 1989, exhausted through Stack 56, equipped with a talc application machine controlled by fabric filters, exhausting through Stack 50, capacity: 0.003 pounds of talc per unit, equipped with one (1) cutting and one (1) edge machine.

(b) One (1) prime and assembly line, installed in July 2001, with materials and capacities not indicated as confidentiality was requested, consisting of a primer application, equipped with a felt tip applicator, exhausting through Stack 300 and primer curing station, exhausting through Stack 301, a clip assembly machine and two (2) rubber dam soldering stations.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Ovens and Combustion Facilities

(c) Two (2) electric ovens, installed in 1989, exhausting through Stacks 121 - 128.

(d) Three (3) natural gas-fired boilers, known as boiler #1 through #3, installed in 1980, exhausting through Stacks 14, 17 and 20, respectively, rated at 8.38 million British thermal units per hour or 250 horsepower, each.

(e) One (1) natural gas-fired boiler, known as boiler #4, installed in 1987, exhausting through Stack 23, rated at 8.38 million British thermal units per hour or 250 horsepower.

(f) One (1) natural gas-fired boiler, known as boiler #5, used to keep fire protection water from freezing, installed in 1980, exhausting through Stack 302, rated at 1.5 million British thermal units per hour.

(g) Four (4) natural gas-fired burners, known as flame breakout, consisting of two (2) burners on Line 1 installed in 2000, one (1) burner on Line 8A installed in 1989, and one (1) burner on Line 8B installed in 1989, rated at 0.018 million British thermal units per hour, each.

(h) One (1) natural gas-fired preheat oven on Line 8A, exhausting through Stack 120, installed in July 2000, rated at 3.0 million British thermal units per hour.

(i) One (1) natural gas-fired process water heater, known as WH-1, at lamination line #1, rated at 3.5 million British thermal units per hour.

(j) One (1) natural gas-fired forced air ventilation system for space heating, rated at 3.898 million British thermal units per hour, consisting of two (2) process space heaters, known as VS-N1 and VS-N2, rated at 1.949 million British thermal units per hour each.

(**k**~~i~~) One (1) diesel-fired emergency generator, known as EG1, installed in 1997, rated at 197 horsepower output.

(**l**~~j~~) Two (2) diesel-fired emergency pumps, known as EP-1 and EP-2, installed in 1980, rated at 215 horsepower output, each.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Parts Washers

(**m**~~k~~) **Nine (9)** ~~Ten (10)~~ parts washers, known as Washers #1 through #**9**~~10~~, installed between 1985 and 2000, capacity: 30 gallons of nonhalogenated solvent, each.

(**n**~~l~~) One (1) parts washer, known as Washer #11, installed in 1981, capacity: 100 gallons of non-halogenated solvent.

(o) One (1) Safety-Kleen parts washer, installed in 2003, capacity: 77 gallons of non-halogenated solvent.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Deposition, Soldering and Interleaving Processes

(**p**~~m~~) One (1) magnetic sputtered vacuum deposition process (no emissions) with capacity not indicated as confidentiality was requested.

(**q**~~n~~) One (1) off-line soldering process with materials and capacities not indicated as confidentiality was requested, consisting of three (3) manual soldering stations, installed in 1997 and one (1) manual soldering station, installed in 1999, exhausted through Stack 77.

(**r**~~o~~) One (1) interleaving process, equipped with a baghouse on Line 6, exhausted through Stack 119 with materials and capacity not indicated as confidentiality was requested,

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

SECTION D.5 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Storage Tanks

(**s**~~p~~) Two (2) storage tanks, known as Tanks 1 and 2, installed in 1989, capacity: 500 gallons of water treatment product(s), each.

(**t**~~q~~) Three (3) storage tanks, known as Tanks 4, 5 and 6, used to store fuel for emergency generator and pumps, installed in 1980, 1980 and 1997, capacity: 300 gallons of diesel fuel, each.

(**u**~~r~~) One (1) storage tank, known as Tank 3, installed in 1987, capacity: 2,000 gallons of water treatment product.

(**v**s) Two (2) storage tanks, known as Tanks 7 and 9, installed in 1999, capacity: 400 gallons of water treatment product(s), each.

(**w**~~t~~) Two (2) storage tanks, known as Tanks 8 and 10, installed in 1992, capacity: 400 gallons of water treatment product(s), each.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

SECTION D.6 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Surface Preparation and Maintenance Booth

(**x**~~u~~) Sulfur dioxide roll surface preparation, using four (4) 40 pounds cylinders, with materials and capacities not indicated as confidentiality was requested.

(**y**~~v~~) One (1) maintenance booth, equipped with dry filters for overspray control, with spray cans and/or air atomization spray applicators, exhausted through Stack 7, installed 1986.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

All other conditions of the permit shall remain unchanged and in effect. For your convenience, the entire approval has been printed with the revised pages.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Mark L. Kramer, c/o OAM, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, at 631-691-3395 ext. 12 or in Indiana at 1-800-451-6027 (ext 631-691-3395).

Sincerely,

Signed by

Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments
MLK/MES
cc: File - Vanderburgh County
U.S. EPA, Region V
Vanderburgh County Health Department
Air Compliance Section Inspector - Scott Anslinger
Compliance Branch - Karen Nowak
Administrative and Development
Technical Support and Modeling - Michelle Boner

MINOR SOURCE OPERATING PERMIT
OFFICE OF AIR QUALITY

PPG Industries, Inc.
424 East Inglefield Road
Evansville, Indiana 47725

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.:MSOP 163-13849-00094	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: January 25, 2002 Expiration Date: January 25, 2007

First Notice Only Change No.: 163-15927-00094, Issued May 15, 2002

Second Notice Only Change No.: 163-16850-00094	Condition A.2 and Sections D.1 through D.6
Issued by:Signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: May 16, 2003

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1 through A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

PPG Industries, Inc. has requested that the following portions of their application be kept confidential. These portions include the capacities of process facilities, materials used and throughputs as provided in the application on Forms E, F, W-1, W-2, W-3 and W-4.

A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary transportation transparency manufacturing source, which includes silk screening, tempering, laminating and other processes.

Authorized Individual:	Ralph Farber
Source Address:	424 East Inglefield Road, Evansville, Indiana 47725
Mailing Address:	424 East Inglefield Road, Evansville, Indiana 47725
Phone Number:	812 - 868 - 8206
SIC Code:	3231
County Location:	Vanderburgh
County Status:	Attainment for all criteria pollutants
Source Status:	Minor Source Operating Permit Minor Source, under PSD Rules; Minor Source, Section 112 of the Clean Air Act

A.2 Emissions units and Pollution Control Equipment Summary

This stationary source is approved to operate the following emissions units and pollution control devices:

(a) One (1) silk screening operation, exhausted through Stacks 45, 55 and 56 (laminating) and Stacks 69, 70, 74 and 75 (tempering) with materials and capacities not indicated as confidentiality was requested, except for the talc application machines, consisting of:

(1) One (1) laminating line, known as Line 1, installed in 1980, includes silk screening, exhausting through Stack 45, equipped with a talc application machine controlled by a particulate matter trap, exhausted through Stack 117, capacity: 0.0007 pounds of talc per unit, equipped with two (2) cutting and two (2) edge machines.

(2) One (1) tempering line (cold end only), known as Line 2, equipped with one (1) cutting and two (2) edging machines, installed in 1980.

(3) One (1) tempering line, known as Line 3-1 (cold end only), installed in 1983, equipped with one (1) cutting and two (2) edge machines.

(4) One (1) tempering line, known as Line 3-2 (cold end only), installed in 1980, equipped with one (1) cutting and two (2) edge machines.

(5) One (1) tempering line, known as Line 3 (hot end only), installed in 1983, includes silk screening.

(6) One (1) tempering line, known as Line 4 (cold end and hot end, but no silk screening), installed in 1980, equipped with one (1) cutting and two (2) edge machines.

(7) One (1) tempering line, known as Line 5 (hot end only), includes silk screening of both silk screen frit and conductive coatings, installed in 1987, exhausting through Stacks 69 and 70.

(8) One (1) cold-end process to the existing tempering line #5, equipped with two (2) dust collectors, exhausting through Stacks 501 and 502.

(9) One (1) tempering line, known as Line 6, includes silk screening of both silk screen frit and conductive coatings, installed in 1987, equipped with two (2) cutting and two (2) edge machines, exhausting through Stacks 74 and 75.

(10) One (1) laminating line, known as Line 8A, includes silk screening of both silk screen frit and conductive coatings, installed in 1989, exhausted through Stack 55, equipped with a talc application machine controlled by fabric filters, exhausting through Stack 49, capacity: 0.003 pounds of talc per unit, equipped with one (1) cutting and one (1) edge machine.

(11) One (1) laminating line, known as Line 8B, includes silk screening of both silk screen frit and conductive coatings, installed in 1989, exhausted through Stack 56, equipped with a talc application machine controlled by fabric filters, exhausting through Stack 50, capacity: 0.003 pounds of talc per unit, equipped with one (1) cutting and one (1) edge machine.

(b) One (1) prime and assembly line, installed in July 2001, with materials and capacities not indicated as confidentiality was requested, consisting of a primer application, equipped with a felt tip applicator, exhausting through Stack 300 and primer curing station, exhausting through Stack 301, a clip assembly machine and two (2) rubber dam soldering stations.

(c) Two (2) electric ovens, installed in 1989, exhausting through Stacks 121 - 128.

(d) Three (3) natural gas-fired boilers, known as boiler #1 through #3, installed in 1980, exhausting through Stacks 14, 17 and 20, respectively, rated at 8.38 million British thermal units per hour or 250 horsepower, each.

(e) One (1) natural gas-fired boiler, known as boiler #4, installed in 1987, exhausting through Stack 23, rated at 8.38 million British thermal units per hour or 250 horsepower.

(f) One (1) natural gas-fired boiler, known as boiler #5, used to keep fire protection water from freezing, installed in 1980, exhausting through Stack 302, rated at 1.5 million British thermal units per hour.

(g) Four (4) natural gas-fired burners, known as flame breakout, consisting of two (2) burners on Line 1 installed in 2000, one (1) burner on Line 8A installed in 1989, and one (1) burner on Line 8B installed in 1989, rated at 0.018 million British thermal units per hour, each.

(h) One (1) natural gas-fired preheat oven on Line 8A, exhausting through Stack 120, installed in July 2000, rated at 3.0 million British thermal units per hour.

(i) One (1) natural gas-fired process water heater, known as WH-1, at lamination line #1, rated at 3.5 million British thermal units per hour.

(j) One (1) natural gas-fired forced air ventilation system for space heating, rated at 3.898 million British thermal units per hour, consisting of two (2) process space heaters, known as VS-N1 and VS-N2, rated at 1.949 million British thermal units per hour each.

(k) One (1) diesel-fired emergency generator, known as EG1, installed in 1997, rated at 197 horsepower output.

(l) Two (2) diesel-fired emergency pumps, known as EP-1 and EP-2, installed in 1980, rated at 215 horsepower output, each.

(m) Nine (9) parts washers, known as Washers #1 through #9, installed between 1985 and 2000, capacity: 30 gallons of nonhalogenated solvent, each.

(n) One (1) parts washer, known as Washer #11, installed in 1981, capacity: 100 gallons of nonhalogenated solvent.

(o) One (1) Safety-Kleen parts washer, installed in 2003, capacity: 77 gallons of nonhalogenated solvent.

(p) One (1) magnetic sputtered vacuum deposition process (no emissions) with capacity not indicated as confidentiality was requested.

(q) One (1) off-line soldering process with materials and capacities not indicated as confidentiality was requested, consisting of three (3) manual soldering stations, installed in 1997 and one (1) manual soldering station, installed in 1999, exhausted through Stack 77.

(r) One (1) interleaving process, equipped with a baghouse on Line 6, exhausted through Stack 119 with materials and capacity not indicated as confidentiality was requested,

(s) Two (2) storage tanks, known as Tanks 1 and 2, installed in 1989, capacity: 500 gallons of water treatment product(s), each.

(t) Three (3) storage tanks, known as Tanks 4, 5 and 6, used to store fuel for emergency generator and pumps, installed in 1980, 1980 and 1997, capacity: 300 gallons of diesel fuel, each.

(u) One (1) storage tank, known as Tank 3, installed in 1987, capacity: 2,000 gallons of water treatment product.

(v) Two (2) storage tanks, known as Tanks 7 and 9, installed in 1999, capacity: 400 gallons of water treatment product(s), each.

(w) Two (2) storage tanks, known as Tanks 8 and 10, installed in 1992, capacity: 400 gallons of water treatment product(s), each.

(x) Sulfur dioxide roll surface preparation, using four (4) 40 pounds cylinders, with materials and capacities not indicated as confidentiality was requested.

(y) One (1) maintenance booth, equipped with dry filters for overspray control, with spray cans and/or air atomization spray applicators, exhausted through Stack 7, installed 1986.

SECTION B GENERAL CONDITIONS

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

B.1 Permit No Defense [IC 13]

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

B.2 Definitions

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

B.3 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

B.4 Modification to Permit [326 IAC 2]

Notwithstanding the Section B condition entitled “Minor Source Operating Permit”, all requirements and conditions of this construction permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

B.5 Minor Source Operating Permit [326 IAC 2-6.1]

(a) This document shall also become a minor source operating permit pursuant to 326 IAC 2-6.1.

(b) The operation permit will be subject to annual operating permit fees pursuant to 326 IAC 2-1.1-7(Fees).

(c) Pursuant to 326 IAC 2-6.1-7, the Permittee shall apply for an operation permit renewal at least ninety (90) days prior to the expiration date established in this permit. If IDEM, OAQ, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied. The operation permit issued shall contain as a minimum the conditions in Section C and Section D of this permit.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

C.1 Minor Source Status [326 IAC 2-2] [40 CFR 52.21] [326 IAC 2-7]

(a) The total source potential to emit of all the criteria pollutants is less than two hundred fifty (250) tons per year. Therefore the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 will not apply.

(b) Any change or modification which may increase potential to emit PM_{10}, VOC, NO_X, SO_2, or CO to 100 tons per year from this source, shall cause this source to be considered a major source under 326 IAC 2-7, and shall require approval from IDEM, OAQ prior to making the change.

(c) Any change or modification which may increase potential to emit PM to two hundred fifty (250) tons per year from this source, shall cause this source to be considered a major source under PSD, 326 IAC 2-2 and 40 CFR 52.21, and shall require approval from IDEM, OAQ prior to making the change.

C.2 Hazardous Air Pollutants (HAPs) [326 IAC 2-7]

Any change or modification which may increase potential to emit to ten (10) tons per year of any single hazardous air pollutant, twenty-five (25) tons per year of any combination of hazardous air pollutants from this source, shall cause this source to be considered a major source under Part 70 Permit Program, 326 IAC 2-7, and shall require approval from IDEM, OAQ, prior to making the change.

C.3 Preventive Maintenance Plan [326 IAC 1-6-3]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) after issuance of this permit, including the following information on each emissions unit:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

(b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.

(c) PMP's shall be submitted to IDEM, OAQ upon request and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

C.4 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

(a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1.

(c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

C.5 Inspection and Entry [326 IAC 2-7-6(2)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ and U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements. [326 IAC 2-7-6(6)]

C.6 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)]:

(a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch within thirty (30) days of the change.

(b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).

(c) IDEM, OAQ shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

C.7 Permit Revocation [326 IAC 2-1-9]

Pursuant to 326 IAC 2-1-9(a)(Revocation of Permits), this permit to operate may be revoked for any of the following causes:

(a) Violation of any conditions of this permit.

(b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.

(c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.

(d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.

(e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.8 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary alternative opacity limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

C.9 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

Testing Requirements

C.10 Performance Testing [326 IAC 3-6] [326 IAC 2-1.1-11]

(a) Compliance testing on new emissions units shall be conducted within (sixty) 60 days after achieving maximum production rate, but no later than one hundred eighty (180) days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

(b) All test reports must be received by IDEM, OAQ within forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

Compliance Monitoring Requirements

C.11 Monitoring Methods [326 IAC 3]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.12 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 1-6]

(a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:

(1) This condition;

(2) The Compliance Determination Requirements in Section D of this permit;

(3) The Compliance Monitoring Requirements in Section D of this permit;

(4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and

(5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAQ (and local agency when applicable) upon request and shall be subject to review and approval by IDEM, OAQ, (and local agency when applicable). The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :

(A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and

(B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.

(b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.

(c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:

(1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;

(3) An automatic measurement was taken when the process was not operating; or

(4) The process has already returned to operating within "normal" parameters and no response steps are required.

(d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken.

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected emissions unit while the corrective actions are being implemented. IDEM, OAQ shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAQ within thirty (30) days of receipt of the notice of deficiency. IDEM, OAQ, reserves the authority to use enforcement activities to resolve noncompliant stack tests.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected emissions unit.

The documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

Record Keeping and Reporting Requirements

C.14 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

(a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.

(b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said

occurrence.

(c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).

(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.15 Annual Emission Statement [326 IAC 2-6]

(a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:

(1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);

(2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 fee assessment.

(b) The annual emission statement covers the twelve (12) consecutive month time period starting December 1 and ending November 30. The annual emission statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

C.16 Monitoring Data Availability [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) With the exception of performance tests conducted in accordance with Section C- Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.

(b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.

(c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.

(d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.

(e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.

(f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.17 General Record Keeping Requirements [326 IAC 2-6.1-2]

(a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAQ representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Records of required monitoring information shall include, where applicable:

(1) The date, place, and time of sampling or measurements;

(2) The dates analyses were performed;

(3) The company or entity performing the analyses;

(4) The analytic techniques or methods used;

(5) The results of such analyses; and

(6) The operating conditions existing at the time of sampling or measurement.

(c) Support information shall include, where applicable:

(1) Copies of all reports required by this permit;

(2) All original strip chart recordings for continuous monitoring instrumentation;

(3) All calibration and maintenance records;

(4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall

briefly describe what maintenance and response steps were taken and indicate who performed the tasks.

(d) All record keeping requirements not already legally required shall be implemented when operation begins.

C.18 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

(a) The reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(c) Unless otherwise specified in this permit, any quarterly report shall be submitted within thirty (30) days of the end of the reporting period. The reports do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(d) All instances of deviations must be clearly identified in such reports. A reportable deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:

(1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or

(2) A malfunction as described in 326 IAC 1-6-2; or

(3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.

(4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred or failure to monitor or record the required compliance monitoring is a deviation.

(e) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.

(f) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

C.19 Annual Notification [326 IAC 2-6.1-5(a)(5)]

(a) Annual notification shall be submitted to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.

(b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.

(c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

Compliance Branch, Office of Air Quality
Indiana Department of Environmental Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

(d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Silk Screening Operation

(a) One (1) silk screening operation, exhausted through Stacks 45, 55 and 56 (laminating) and Stacks 69, 70, 74 and 75 (tempering) with materials and capacities not indicated as confidentiality was requested, except for the talc application machines, consisting of:

(1) One (1) laminating line, known as Line 1, installed in 1980, includes silk screening, exhausting through Stack 45, equipped with a talc application machine controlled by a particulate matter trap, exhausted through Stack 117, capacity: 0.0007 pounds of talc per unit, equipped with two (2) cutting and two (2) edge machines.

(2) One (1) tempering line (cold end only), known as Line 2, equipped with one (1) cutting and two (2) edging machines, installed in 1980.

(3) One (1) tempering line, known as Line 3-1 (cold end only), installed in 1983, equipped with one (1) cutting and two (2) edge machines.

(4) One (1) tempering line, known as Line 3-2 (cold end only), installed in 1980, equipped with one (1) cutting and two (2) edge machines.

(5) One (1) tempering line, known as Line 3 (hot end only), installed in 1983, includes silk screening.

(6) One (1) tempering line, known as Line 4 (cold end and hot end, but no silk screening), installed in 1980, equipped with one (1) cutting and two (2) edge machines.

(7) One (1) tempering line, known as Line 5 (hot end only), includes silk screening of both silk screen frit and conductive coatings, installed in 1987, exhausting through Stacks 69 and 70.

(8) One (1) cold-end process to the existing tempering line #5, equipped with two (2) dust collectors, exhausting through Stacks 501 and 502.

(9) One (1) tempering line, known as Line 6, includes silk screening of both silk screen frit and conductive coatings, installed in 1987, equipped with two (2) cutting and two (2) edge machines, exhausting through Stacks 74 and 75.

(10) One (1) laminating line, known as Line 8A, includes silk screening of both silk screen frit and conductive coatings, installed in 1989, exhausted through Stack 55, equipped with a talc application machine controlled by fabric filters, exhausting through Stack 49, capacity: 0.003 pounds of talc per unit, equipped with one (1) cutting and one (1) edge machine.

(11) One (1) laminating line, known as Line 8B, includes silk screening of both silk screen frit and conductive coatings, installed in 1989, exhausted through Stack 56, equipped with a talc application machine controlled by fabric filters, exhausting through Stack 50, capacity: 0.003 pounds of talc per unit, equipped with one (1) cutting and one (1) edge machine.

(b) One (1) prime and assembly line, installed in July 2001, with materials and capacities not indicated as confidentiality was requested, consisting of a primer application, equipped with a felt tip applicator, exhausting through Stack 300 and primer curing station, exhausting through Stack 301, a clip assembly machine and two (2) rubber dam soldering stations.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-6.1-5(1)]

D.1.1 Particulate Matter (PM) [326 IAC 6-3-2(c)]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the talc application machines on Lines 1, 8A and 8B shall not exceed 6.48, 4.21 and 4.21 pounds per hour, respectively.

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour which has been requested to be confidential.

D.1.2 Volatile Organic Compounds [326 IAC 8-1-6]

The VOC delivered to the applicators for coating glass on the laminating, tempering and conductive coating lines shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period. Compliance with this limitation shall render the requirements of 326 IAC 8-1-6 not applicable.

Compliance Determination Requirements [326 IAC 2-1.1-11]

D.1.3 Volatile Organic Compounds (VOC)

Compliance with the VOC usage limitation contained in Condition D.1.2 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating manufacturer.

D.1.4 VOC Emissions

Compliance with Condition D.1.2 shall be demonstrated within 30 days of the end of each month based on the total volatile organic compound usage for the twelve (12) month period.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

There are no specific Compliance Monitoring Requirements applicable to these emission units.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.5 Record Keeping Requirements

(a) To document compliance with Condition D.1.2, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limit and/or the VOC emission limit established in Condition D.1.2.

(1) The amount and VOC content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;

(2) A log of the dates of use;

(3) The cleanup solvent usage for month; and

(4) The weight of VOCs emitted for each compliance period.

(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.6 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.2 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Ovens and Combustion Facilities

(c) Two (2) electric ovens, installed in 1989, exhausting through Stacks 121 - 128.

(d) Three (3) natural gas-fired boilers, known as boiler #1 through #3, installed in 1980, exhausting through Stacks 14, 17 and 20, respectively, rated at 8.38 million British thermal units per hour or 250 horsepower, each.

(e) One (1) natural gas-fired boiler, known as boiler #4, installed in 1987, exhausting through Stack 23, rated at 8.38 million British thermal units per hour or 250 horsepower.

(f) One (1) natural gas-fired boiler, known as boiler #5, used to keep fire protection water from freezing, installed in 1980, exhausting through Stack 302, rated at 1.5 million British thermal units per hour.

(g) Four (4) natural gas-fired burners, known as flame breakout, consisting of two (2) burners on Line 1 installed in 2000, one (1) burner on Line 8A installed in 1989, and one (1) burner on Line 8B installed in 1989, rated at 0.018 million British thermal units per hour, each.

(h) One (1) natural gas-fired preheat oven on Line 8A, exhausting through Stack 120, installed in July 2000, rated at 3.0 million British thermal units per hour.

(i) One (1) natural gas-fired process water heater, known as WH-1, at lamination line #1, rated at 3.5 million British thermal units per hour.

(j) One (1) natural gas-fired forced air ventilation system for space heating, rated at 3.898 million British thermal units per hour, consisting of two (2) process space heaters, known as VS-N1 and VS-N2, rated at 1.949 million British thermal units per hour each.

(k) One (1) diesel-fired emergency generator, known as EG1, installed in 1997, rated at 197 horsepower output.

(l) Two (2) diesel-fired emergency pumps, known as EP-1 and EP-2, installed in 1980, rated at 215 horsepower output, each.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-6.1-5(1)]

D.2.1 Particulate Matter (PM) [326 IAC 6-2-3]

(a) Pursuant to 326 IAC 6-2-3(e), the PM emissions from each of the 8.38 million British thermal units per hour heat input boilers, known as boiler #1, #2 and #3 shall be limited to 0.6 pounds per million British thermal units heat input.

(b) Pursuant to 326 IAC 6-2-3, the PM emissions from the 1.5 million British thermal units per hour heat input boiler, known as boiler #5 shall be limited to 0.528 pounds per million British thermal units heat input.

This limitation is based on the following equation:

$$Pt = \frac{C * a * h}{76.5 * Q^{0.75} * N^{0.25}}$$

Pt = lbs of PM emitted per MMBtu heat input

where:

C = maximum ground level concentration (default = 50 u/m^3)
a = plume rise factor (default = 0.67 for Q less than 1,000 MMBtu/hr)
h = stack height in feet
Q = total source maximum operating capacity
N = number of stacks in fuel burning operation

D.2.2 Particulate Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4, the PM emissions from the 8.38 million British thermal units per hour heat input boiler, known as boiler #4 shall be limited to 0.432 pounds per million British thermal units heat input.

$$Pt = \frac{1.09}{Q^{0.26}}$$

where:

Pt = Pounds of particulate matter emitted per million British thermal units.

Q = Total source maximum operating capacity rating in million British thermal units heat input. The maximum operating capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's operation permit application, except when some lower capacity is contained in the facility's operation permit, in which case, the capacity specified in the operation permit shall be used.

Compliance Determination Requirements [326 IAC 2-1.1-11]

There are no specific Compliance Determination Requirements applicable to these emission units.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

There are no specific Compliance Monitoring Requirements applicable to these emission units.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Parts Washers

(m) Nine (9) parts washers, known as Washers #1 through #9, installed between 1985 and 2000, capacity: 30 gallons of nonhalogenated solvent, each.

(n) One (1) parts washer, known as Washer #11, installed in 1981, capacity: 100 gallons of non-halogenated solvent.

(o) One (1) Safety-Kleen parts washer, installed in 2003, capacity: 77 gallons of nonhalogenated solvent.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-6.1-5(1)]

D.3.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations) for cold cleaning operations constructed after January 1, 1980, the owner or operator shall:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements;

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.3.2 Volatile Organic Compounds (VOC) [326 IAC 8-3-5(a) and (b)]

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser without remote solvent reservoirs constructed after July 1, 1990, shall ensure that the following requirements are met:

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38EC) (one hundred degrees Fahrenheit (100EF));

(B) The solvent is agitated; or

(C) The solvent is heated.

(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38EC) (one hundred degrees Fahrenheit (100EF)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38EC) (one hundred degrees Fahrenheit (100EF)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9EC) (one hundred twenty degrees Fahrenheit (120EF)):

(A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.

(B) A water cover when solvent is used is insoluble in, and heavier than, water.

(C) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

(b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:

(1) Close the cover whenever articles are not being handled in the degreaser.

(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.

(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

Compliance Determination Requirements [326 IAC 2-1.1-11]

There are no specific Compliance Determination Requirements applicable to these emission units.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

There are no specific Compliance Monitoring Requirements applicable to these emission units.

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Deposition, Soldering and Interleaving Processes

(p) One (1) magnetic sputtered vacuum deposition process (no emissions) with capacity not indicated as confidentiality was requested.

(q) One (1) off-line soldering process with materials and capacities not indicated as confidentiality was requested, consisting of three (3) manual soldering stations, installed in 1997 and one (1) manual soldering station, installed in 1999, exhausted through Stack 77.

(r) One (1) interleaving process, equipped with a baghouse on Line 6, exhausted through Stack 119 with materials and capacity not indicated as confidentiality was requested,

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-6.1-5(1)]

D.4.1 Particulate Matter (PM) [326 IAC 6-3-2(c)]

(a) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the interleaving process shall not exceed 6.08 pounds per hour.

(b) Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the offline soldering process shall not exceed 7.76 pounds per hour.

(c) The pound per hour limitations were calculated with the following equation

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

Compliance Determination Requirements [326 IAC 2-1.1-11]

There are no specific Compliance Determination Requirements applicable to these emission units.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

There are no specific Compliance Monitoring Requirements applicable to these emission units.

SECTION D.5 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Storage Tanks

(s) Two (2) storage tanks, known as Tanks 1 and 2, installed in 1989, capacity: 500 gallons of water treatment product(s), each.

(t) Three (3) storage tanks, known as Tanks 4, 5 and 6, used to store fuel for emergency generator and pumps, installed in 1980, 1980 and 1997, capacity: 300 gallons of diesel fuel, each.

(u) One (1) storage tank, known as Tank 3, installed in 1987, capacity: 2,000 gallons of water treatment product.

(v) Two (2) storage tanks, known as Tanks 7 and 9, installed in 1999, capacity: 400 gallons of water treatment product(s), each.

(w) Two (2) storage tanks, known as Tanks 8 and 10, installed in 1992, capacity: 400 gallons of water treatment product(s), each.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-6.1-5(1)]

There are no specific Emission Limitations and Standards applicable to these emission units.

Compliance Determination Requirements [326 IAC 2-1.1-11]

There are no specific Compliance Determination Requirements applicable to these emission units.

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

There are no specific Compliance Monitoring Requirements applicable to these emission units.

SECTION D.6 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Surface Preparation and Maintenance Booth

(x) Sulfur dioxide roll surface preparation, using four (4) 40 pounds cylinders, with materials and capacities not indicated as confidentiality was requested.

(y) One (1) maintenance booth, equipped with dry filters for overspray control, with spray cans and/or air atomization spray applicators, exhausted through Stack 7, installed 1986.

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-6.1-5(1)]

D.6.1 Volatile Organic Compounds [326 IAC 8-2-9]

Any change or modification which would increase the potential to emit VOC from the maintenance booth to twenty-five (25) tons per year or more on metal substrates, shall require prior approval from IDEM, OAQ.

D.6.2 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, the PM from the maintenance booth shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

Compliance Determination Requirements [326 IAC 2-1.1-11]

D.6.3 Volatile Organic Compounds (VOC)

Compliance with the VOC usage limitation contained in Condition D.6.2 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating manufacturer.

D.6.4 Particulate Matter (PM)

In order to comply with Condition D.6.2, the dry filters for PM control shall be in operation and control emissions from the maintenance booth at all times when the maintenance booth is in operation.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.6.5 Monitoring

(a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the filters. To monitor the performance of the dry filters, weekly observations shall be made of the overspray from the maintenance coating booth stack while one or more of the booths are in operation. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

(b) Monthly inspections shall be performed of the coating emissions from the maintenance booth exhaust, Stack 7, and the presence of overspray on the rooftops and the nearby ground. During periods of inclement weather, these inspections shall be performed as weather permits. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when a noticeable change in overspray emission, or evidence of overspray emission is observed. The Compliance Response Plan shall be followed whenever a condition exists which should result in a response step. Failure to take response steps in accordance with Section C - Compliance Monitoring Plan - Failure to Take Response Steps, shall be considered a violation of this permit.

(c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.6.6 Record Keeping Requirements

(a) To document compliance with Condition D.6.1, the Permittee shall maintain records in accordance with (1) through (4) below. Records maintained for (1) through (4) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limit and/or the VOC emission limit established in Condition D.6.1.

(1) The amount and VOC content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;

(2) A log of the dates of use;

(3) The cleanup solvent usage for month; and

(4) The weight of VOCs emitted for each compliance period.

(b) To document compliance with Conditions D.6.4 and D.6.5, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections, and those additional inspections prescribed by the Preventive Maintenance Plan.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
FAX NUMBER - 317 233-5967

This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES ?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100 TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF 'MALFUNCTION' AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. : _____
LOCATION: (CITY AND COUNTY) _____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP: _____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: _____/_____/ 20_____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE_____/_____/ 20____ _____ AM / PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____
CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____
CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____
INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

*** Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

_____

_____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH

MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	**PPG Industries, Inc.**
Address:	**424 East Inglefield Road**
City:	**Evansville, Indiana 47725**
Phone #:	**812-868-8206**
MSOP #:	**163-13849-00094**

I hereby certify that PPG Industries, Inc. is **9** still in operation.
9 no longer in operation.

I hereby certify that PPG Industries, Inc. is **9** in compliance with the requirements of MSOP **163-13849-00094**.
9 not in compliance with the requirements of MSOP **163-13849-00094**.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

COMPLIANCE DATA SECTION

Quarterly Report

Company Name: PPG Industries, Inc.
Location: 425 East Inglefield Road, Evansville, Indiana 47725
Permit No.: MSOP 163-13849-00094
Facilities: Laminating, tempering and conductive coating lines
Parameter: VOC delivered to the applicators for coating glass
Limit: Less than twenty-five (25) tons per twelve (12) consecutive month period

Year: _____

Month	VOC (tons)	VOC (tons)	VOC (tons)
	This Month	Previous 11 Months	12 Month Total

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100

Company Name: PPG Industries, Inc.
Address City IN Zip: 424 East Inglefield Road, Evansville, Indiana 47725
MSOP Notice Only Change: 163-16850
Plt ID: 163-00094
Reviewer: Mark L. Kramer
Date: February 28, 2003

1 Process Water Heater rated at	3.50	mmBtu/hr
2 Process Space Heaters	3.898	mmBtu/hr
Total	7.398	mmBtu/hr

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
7.398	62.31

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.059	0.237	0.019	3.12	0.171	2.62

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,040 MMBtu
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
HAPs Emissions

Company Name: PPG Industries, Inc.
Address City IN Zip: 424 East Inglefield Road, Evansville, Indiana 47725
MSOP Notice Only Change: 163-16850
Plt ID: 163-00094
Reviewer: Mark L. Kramer
Date: February 28, 2003

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	6.543E-05	3.739E-05	2.337E-03	5.608E-02	1.059E-04

HAPs - Metals

	Lead	Cadmium	Chromium	Manganese	Nickel	Total HAPs
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03	
Potential Emission in tons/yr	1.558E-05	3.427E-05	4.362E-05	1.184E-05	6.543E-05	0.059

Company Name: **PPG Industries, Inc.**
Address City IN Zip: **424 East Inglefield Road, Evansville, Indiana 47725**
MSOP Notice Only Change: **163-16850**
Plt ID: **163-00094**
Reviewer: **Mark L. Kramer**
Date: **February 28, 2003**

Line 5: Cold End Addition

Cutting and Edging

PPG supplied an emission factor if 0.37 lbs per ton of cullet
All PM is PM-10
The cullet generation rate is 25% of the glass processed

Therefore,

0.37 lbs/ton * 25.00% = 0.0925 lbs/tons of glass processed

For Line 5:

Maximum Throughput = 212 pcs of glass per hour at 9.6 lbs/pc
Maximum Throughput in lbs/hr = 212 x 9.6 = 2035.2 lbs/hr

Wet Sanding Control = 50.00%

Thus the potential to emit PM and PM-10 is

PTE of PM/PM-10 = 0.0925 lbs/tons of glass processed x 2035.2 lbs/hr x 1 ton / 2000 lbs = 0.094128 lbs/hr

PTE of PM/PM-10 = **0.412** tons/yr

PTE of PM/PM-10 after controls = **0.206** tons/yr

Lucor Interleaving

Lucor Interleaving is applied at a rate of 1 lb/7,000 sq. ft of glass prior to being purchased by PPG.

The glass is 4 mm thick and weighs 1.3 lbs/sq ft

Assume 100% of Lucor applied is removed at the cold end.

Control efficiency = 98%

The maximum throughput in sq ft/hr = 1565.54

All PM is PM-10

Thus the potential to emit PM and PM-10 is

PTE of PM/PM-10 = 1565.5385 sq ft/hr x 8,760 hr/yr x 0.000143 lbs/sq ft / 2000 lbs/ton

PTE of PM/PM-10 = **0.980 tons/yr**

PTE of PM/PM-10 after controls = **0.0196 tons/yr**